

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

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Application Serial Number: 101531726  
Source: PCI  
Date Processed by STIC: 4-27-05

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/24/05



PCT

## RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/10/531,726

TIME: 14:39:20

Input Set : A:\39078-0009US1.txt

Output Set: N:\CRF4\04272005\J531726.raw

3 <110> APPLICANT: Anke Klippel-Giese  
 4 Joerg Kaufmann  
 5 Rolf Schwarzer  
 7 <120> TITLE OF INVENTION: factor involved in metastasis and uses thereof  
 9 <130> FILE REFERENCE: 39078-0009US1  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/531,726  
 C--> 13 <141> CURRENT FILING DATE: 2005-04-18  
 13 <150> PRIOR APPLICATION NUMBER: PCT/EP/03/11604  
 W--> 14 <150> PRIOR APPLICATION NUMBER: October 20, 2003  
 W--> 16 <150> PRIOR APPLICATION NUMBER: EP 02023384.7  
 W--> 17 <150> PRIOR APPLICATION NUMBER: October 18, 2002  
 19 <160> NUMBER OF SEQ ID NOS: 17  
 21 <170> SOFTWARE: PatentIn version 3.1  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 232  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Homo sapiens  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: MISC FEATURE  
 30 <223> OTHER INFORMATION: amino acid sequence of NMF  
 33 <400> SEQUENCE: 1  
 35 Met Pro Ser Leu Trp Asp Arg Phe Ser Ser Ser Thr Ser Ser Ser  
 36 1 5 10 15  
 39 Pro Ser Ser Leu Pro Arg Thr Pro Thr Pro Asp Arg Pro Pro Arg Ser  
 40 20 25 30  
 43 Ala Trp Gly Ser Ala Thr Arg Glu Glu Gly Phe Asp Arg Ser Thr Ser  
 44 35 40 45  
 47 Leu Glu Ser Ser Asp Cys Glu Ser Leu Asp Ser Ser Asn Ser Gly Phe  
 48 50 55 60  
 51 Gly Pro Glu Glu Asp Thr Ala Tyr Leu Asp Gly Val Ser Leu Pro Asp  
 52 65 70 75 80  
 55 Phe Glu Leu Leu Ser Asp Pro Glu Asp Glu His Leu Cys Ala Asn Leu  
 56 85 90 95  
 59 Met Gln Leu Leu Gln Glu Ser Leu Ala Gln Ala Arg Leu Gly Ser Arg  
 60 100 105 110  
 63 Arg Pro Ala Arg Leu Leu Met Pro Ser Gln Leu Val Ser Gln Val Gly  
 64 115 120 125  
 67 Lys Glu Leu Leu Arg Leu Ala Tyr Ser Glu Pro Cys Gly Leu Arg Gly  
 68 130 135 140  
 71 Ala Leu Leu Asp Val Cys Val Glu Gln Gly Lys Ser Cys His Ser Val  
 72 145 150 155 160  
 75 Gly Gln Leu Ala Leu Asp Pro Ser Leu Val Pro Thr Phe Gln Leu Thr  
 76 165 170 175

pls insert

2003-10-20

2002-10-18

Does Not Comply  
Corrected Diskette Needed

(pg. 1, 6)

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/531,726

DATE: 02/27/2005

TIME: 14:39:20

Input Set : A:\39078-0009US1.txt

Output Set: N:\CRF4\04272005\J531726.raw

79 Leu Val Leu Arg Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly Leu  
 80 180 185 190  
 83 Phe Ser Ser Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser Leu  
 84 195 200 205  
 87 Thr Leu Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser Ser  
 88 210 215 220  
 91 Glu Gln Leu Leu Ile Glu Glu Cys  
 92 225 230

95 &lt;210&gt; SEQ ID NO: 2

96 &lt;211&gt; LENGTH: 1760

97 &lt;212&gt; TYPE: DNA

98 &lt;213&gt; ORGANISM: Homo sapiens

100 &lt;400&gt; SEQUENCE: 2

101 gcagcaggcc aagggggagg tgcgagcgtg gacctgggac gggctctgggc ggctctcggt 60  
 103 gggtggcacg gggtgcgaca cccattcaag cggcaggacg cacttgctct agcagttctc 120  
 105 gctgaccgcg ctagctgcgg cttctacgct ccggcactct gagttcatca gcaaacgccc 180  
 107 tggcgtctgt cctcaccatg cctagccttt gggaccgctt ctgctgctcg tccacctcct 240  
 109 cttcgccctc gtccttgccc cgaactccca cccagatcg gccgcccgcg tcagcctggg 300  
 111 ggtcggcgac ccgggaggag gggtttgacc gctccacgag cctggagagc tcggactgcg 360  
 113 agtccctgga cagcagcaac agtggcttcg ggccggaggga agacacggct tacctggatg 420  
 115 ggggtgctgt gcccgacttc gagctgctca gtgacctga ggatgaacac ttgtgtgcca 480  
 117 acctgatgca gctgctgcag gagagcctgg cccaggcgcg gctgggctct cgacgccctg 540  
 119 cgcgcctgct gatgcctagc cagttggtaa gccagggtggg caaagaacta ctgcgcctgg 600  
 121 cctacagcga gccgtgcggc ctgcgggggg cgctgctgga cgtctgcgtg gagcagggca 660  
 123 agagctgcca cagcgtgggc cagctggcac tcgacccag cctggtgccc accttccagc 720  
 125 tgacctcgt gctgcgcctg gactcacgac tctggcccaa gatccagggg ctgttttagct 780  
 127 ccgccaactc tcccttcctc cctggcttca gccagtccct gacgtgagc actggcttcc 840  
 129 gagtcacaa gaagaagctg tacagctcgg aacagctgct cattgaggag tgttgaactt 900  
 131 caacctgagg gggccgacag tgcctccaa gacagagacg actgaacttt tgggggtggag 960  
 133 actagaggca ggagctgagg gactgattcc agtggttgga aaactgaggc agccacctaa 1020  
 135 ggtggagggtg ggggaatagt gtttccagg aagctcattg agttgtgtgc ggggtggctgt 1080  
 137 gcattgggga cacatacccc tcagtactgt agcatggaac aaaggcttag gggccaacaa 1140  
 139 ggcttccagc tggatgtgtg tgtagcatgt acctattat tttgttact gacagttaac 1200  
 141 agtgggtgtg catccagaga gcagctgggc tgcctccgcc ccagcctggc ccagggtgaa 1260  
 143 ggaagaggca cgtgctcctc agagcagccg gagggagggg ggaggtcgga ggtcgtggag 1320  
 145 gtgggtttgt tatcttactg gtctgaaggg accaagtgtg tttgttgttt gttttgtatc 1380  
 147 ttgtttttct gatcggagca tcactactga cctgtttag gcagctatct tacagacgca 1440  
 149 tgaatgtaag agtaggaagg ggtgggtgtc agggatcact tgggatcttt gacacttgaa 1500  
 151 aaattacacc tggcagctgc gtttaagcct tcccccatcg tgtactgcag agttgagctg 1560  
 153 gcaggggagg ggctgagagg gtgggggctg gaaccctcc ccgggaggag tgccatctgg 1620  
 155 gtcttccatc tagaactgtt tacatgaaga taagatactc actgttcatg aatacacttg 1680  
 157 atgttcaagt attaagacct atgcaatatt ttttactttt ctaataaaca tgtttgttaa 1740  
 159 aacaaaaaaaa aaaaaaaaaa 1760

162 &lt;210&gt; SEQ ID NO: 3

163 &lt;211&gt; LENGTH: 699

164 &lt;212&gt; TYPE: DNA

165 &lt;213&gt; ORGANISM: Homo sapiens

167 &lt;400&gt; SEQUENCE: 3

168 atgcctagcc tttgggaccg cttctcgtcg tcgtccacct cctcttcgcc ctgctccttg 60

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/531,726

DATE: 27/2005

TIME: 14:39:20

Input Set : A:\39078-0009US1.txt

Output Set: N:\CRF4\04272005\J531726.raw

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170 ccccgaaactc ccaccccaga tcggccgccc cgctcagcct ggggggtcggc gacccgggag 120
172 gaggggtttg accgctccac gagcctggag agctcggact gcgagtcctt ggacagcagc 180
174 aacagtggct tcgggcccga ggaagacacg gcttacctgg atgggggtgtc gttgcccgac 240
176 ttcgagctgc tcagtgacct tgaggatgaa cacttggtgtg ccaacctgat gcagctgctg 300
178 caggagagcc tggcccaggc gcggctgggc tctcgacgcc ctgcgcgcct gctgatgcct 360
180 agccagtttg taagccaggt gggcaaagaa ctactgcgcc tggcctacag cgagccgtgc 420
182 ggccctgcggg gggcgctgct ggacgtctgc gtggagcagg gcaagagctg ccacagcgtg 480
184 ggccagctgg cactcgacct cagcctggtg cccaccttcc agctgacctt cgtgctgcgc 540
186 ctggactcac gactctggcc caagatccag gggctgttta gctccgcaa ctctcccttc 600
188 ctccctggct tcagccagtc cctgacgctg agcactggct tccgagtcac caagaagaag 660
190 ctgtacagct cggaacagct gctcattgag gagtgttga 699
193 <210> SEQ ID NO: 4
194 <211> LENGTH: 21
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: antisense oligonucleotide
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (1)..(6)
204 <223> OTHER INFORMATION: RNA
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (7)..(15)
210 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
215 <222> LOCATION: (16)..(21)
216 <223> OTHER INFORMATION: RNA
219 <400> SEQUENCE: 4
220 gcucaactct gcagtacag a 21
223 <210> SEQ ID NO: 5
224 <211> LENGTH: 21
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: antisense oligonucleotide
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (1)..(6)
234 <223> OTHER INFORMATION: RNA
237 <220> FEATURE:
238 <221> NAME/KEY: misc_feature
239 <222> LOCATION: (7)..(15)
240 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (16)..(21)
246 <223> OTHER INFORMATION: RNA

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## RAW SEQUENCE LISTING

DATE: 4/27/2005

PATENT APPLICATION: US/10/531,726

TIME: 14:39:20

Input Set : A:\39078-0009US1.txt

Output Set: N:\CRF4\04272005\J531726.raw

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249 <400> SEQUENCE: 5
250 cuugguccct tcagaccagu a 21
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256 <213> ORGANISM: Artificial Sequence
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259 <223> OTHER INFORMATION: antisense oligonucleotide
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (1)..(6)
264 <223> OTHER INFORMATION: RNA
267 <220> FEATURE:
268 <221> NAME/KEY: misc_feature
269 <222> LOCATION: (7)..(15)
270 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (16)..(21)
276 <223> OTHER INFORMATION: RNA
279 <400> SEQUENCE: 6
280 caguutcca accacuggaa u 21
283 <210> SEQ ID NO: 7
284 <211> LENGTH: 21
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: antisense oligonucleotide
291 <220> FEATURE:
292 <221> NAME/KEY: misc_feature
293 <222> LOCATION: (1)..(6)
294 <223> OTHER INFORMATION: RNA
297 <220> FEATURE:
298 <221> NAME/KEY: misc_feature
299 <222> LOCATION: (7)..(15)
300 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
303 <220> FEATURE:
304 <221> NAME/KEY: misc_feature
305 <222> LOCATION: (16)..(21)
306 <223> OTHER INFORMATION: RNA
309 <400> SEQUENCE: 7
310 cccaaaagtt cagtcguc u 21
313 <210> SEQ ID NO: 8
314 <211> LENGTH: 21
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: antisense oligonucleotide
321 <220> FEATURE:

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## RAW SEQUENCE LISTING

DATE: 02/27/2005

PATENT APPLICATION: US/10/531,726

TIME: 14:39:20

Input Set : A:\39078-0009US1.txt

Output Set: N:\CRF4\04272005\J531726.raw

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322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (1)..(6)
324 <223> OTHER INFORMATION: RNA
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <222> LOCATION: (7)..(15)
330 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
333 <220> FEATURE:
334 <221> NAME/KEY: misc_feature
335 <222> LOCATION: (16)..(21)
336 <223> OTHER INFORMATION: RNA
339 <400> SEQUENCE: 8
340 gcuccugcct ctagtccucca c 21
343 <210> SEQ ID NO: 9
344 <211> LENGTH: 21
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <223> OTHER INFORMATION: antisense oligonucleotide
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <222> LOCATION: (1)..(6)
354 <223> OTHER INFORMATION: RNA
357 <220> FEATURE:
358 <221> NAME/KEY: misc_feature
359 <222> LOCATION: (7)..(15)
360 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
363 <220> FEATURE:
364 <221> NAME/KEY: misc_feature
365 <222> LOCATION: (16)..(21)
366 <223> OTHER INFORMATION: RNA
369 <400> SEQUENCE: 9
370 guguucatcc tcagggucau c 21
373 <210> SEQ ID NO: 10
374 <211> LENGTH: 21
375 <212> TYPE: DNA
376 <213> ORGANISM: Artificial Sequence
378 <220> FEATURE:
379 <223> OTHER INFORMATION: antisense oligonucleotide
381 <220> FEATURE:
382 <221> NAME/KEY: misc_feature
383 <222> LOCATION: (1)..(6)
384 <223> OTHER INFORMATION: RNA
387 <220> FEATURE:
388 <221> NAME/KEY: misc_feature
389 <222> LOCATION: (7)..(15)
390 <223> OTHER INFORMATION: DNA linked through phosphorothioate linkages
393 <220> FEATURE:
394 <221> NAME/KEY: misc_feature

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Page 6

<210> 17

<211> 187

<212> DNA

<213> Artificial

pls explain source of genetic material

<400> 17

gaattcctat ttcccatgat tccttcatat ttgcatat ttataaatgga ctatcatatg 60

cttaccgtaa cttgaaagta ttctgatttc ttggctttat atatcttggg aaaggacgaa 120

acaccgggag actagaggca ggagcaaaaa aaaaaactcc tgcctctagt ctccactttt 180

tctcgag 187

↑ see error explanation  
on page 7.

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/531,726

DATE: 4/27/2005  
TIME: 14:39:21

Input Set : A:\39078-0009US1.txt  
Output Set: N:\CRF4\04272005\J531726.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"  
or "Unknown". Please explain source of genetic material in <220> to <223>  
section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)  
(Sec.1.823 of new Rules)

Seq#:17

Error Explanation: 2



## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/531,726

DATE: 04/27/2005

TIME: 14:39:21

Input Set : A:\39078-0009US1.txt

Output Set: N:\CRF4\04272005\J531726.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:14 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE ✓  
L:16 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE ✓  
L:17 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE ✓  
L:534 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:17, <213> ✓  
ORGANISM:Artificial  
L:534 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:17, <213> ✓  
ORGANISM:Artificial  
L:534 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:17, Line#:534 ✓